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GIFFELS & VALLET
O F C A N A D A L I M I T E D

GIFFELS & VALLET

O F C A N A D A L I M I T E D

TORONTO 12, ONTARIO
181 EGLINTON Ave. East

WINDSOR, ONTARIO
65 ELLIOTT Street East

background & organization

Giffels & Vallet of Canada, Ltd. has its home office in Windsor, Ontario, and maintains a branch in Toronto.

The organization was founded in 1950. It has grown from 20 persons to an integrated design group which, in recent years, has averaged 225.

Since its formation, G & V has provided a complete consulting service to meet the requirements of industry, commerce, institutions and divisions of governmental planning groups. This service includes:

PLANNING AND PROGRAMMING	STRUCTURAL ENGINEERING
SITE SELECTION	MECHANICAL ENGINEERING
COST ESTIMATES	ELECTRICAL ENGINEERING
CIVIL ENGINEERING	SPECIFICATIONS
BUILDING DESIGN	CONSTRUCTION SUPERVISION

The scope of G & V service extends beyond the usual practice of consultants. It includes studies and surveys, process and production equipment layout, production methods, materials handling, and the application of modern processing and operating equipment.

To provide this complete consulting service, a staff comprised of personnel in the following classifications is permanently maintained:

CHEMICAL ENGINEERS	EXPEDITORS
CIVIL AND STRUCTURAL ENGINEERS	INDUSTRIAL ENGINEERS
DESIGNERS	MECHANICAL ENGINEERS
DRAFTSMEN	PROJECT DIRECTORS
ELECTRICAL ENGINEERS	SPECIFICATION WRITERS
ESTIMATORS	FIELD SUPERINTENDENTS

Each project is developed by groups or departments, as shown on the opposite page, through a project director. His responsibilities include consultation, liaison, development of requirements; and coordination of design, specifications, bills of material, evaluation of tender documents and construction supervision.

CLIENT

DEPARTMENTAL FUNCTIONS

CLIENT'S
REPRESENTATIVE

Design & Planning
Delineation & Models
Site Planning
Working Drawings
Material Selection
Checking
Full Size Detailing
Interiors
Soil Mechanics
Building Foundations
Equipment Foundations
Structural Frames
Equipment Supports
Building Services
Fire Protection
Water & Sewage Systems
Waste Treatment
Process Piping
Ventilation
Dust Control
Lighting
Power Distribution
Equipment Services
Electrical Controls
Processing
Plant Layout
Material Handling
Equipment Design
Equipment Installation
Contracts
Estimating
Specifications
Expediting
Supervision
Payments
Clerical

GLV

PROJECT
DIRECTION

NEW
PROJECT
DEVELOPMENT

DEPARTMENTAL
SPECIALISTS

DESIGNERS

MANAGEMENT

STRUCTURAL

ADMINISTRATIVE

MECHANICAL

DESIGN OFFICES

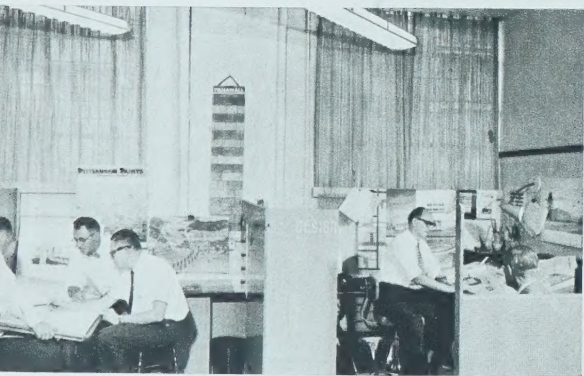
ELECTRICAL

WINDSOR


TORONTO

SPECIAL
PROJECTS

CONTRACT



representative projects

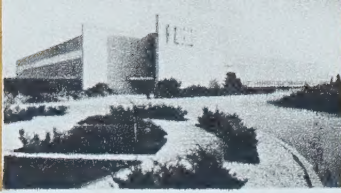


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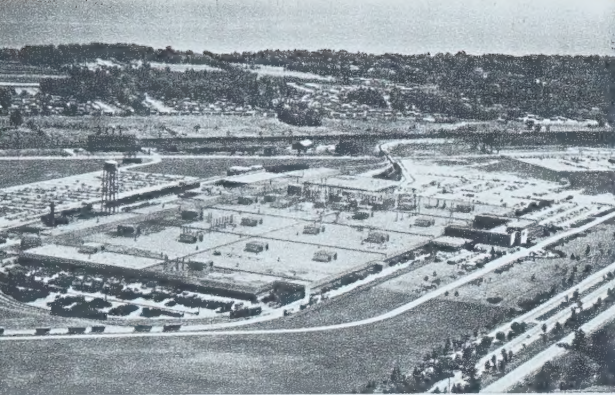
https://archive.org/details/Giff1947_0000



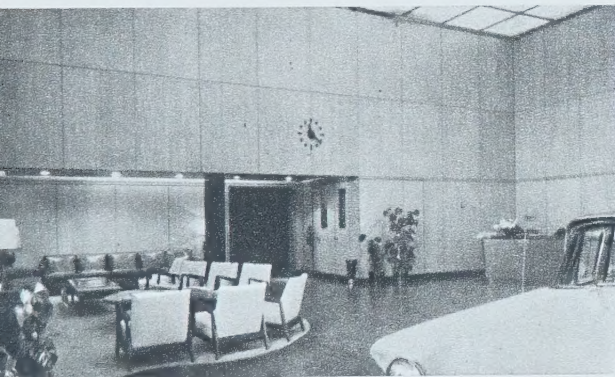
FORD MOTOR COMPANY OF CANADA LIMITED



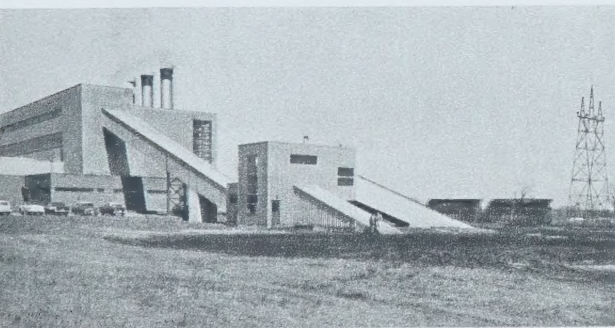
FORD MOTOR COMPANY OF CANADA
LIMITED
Oakville, Ontario



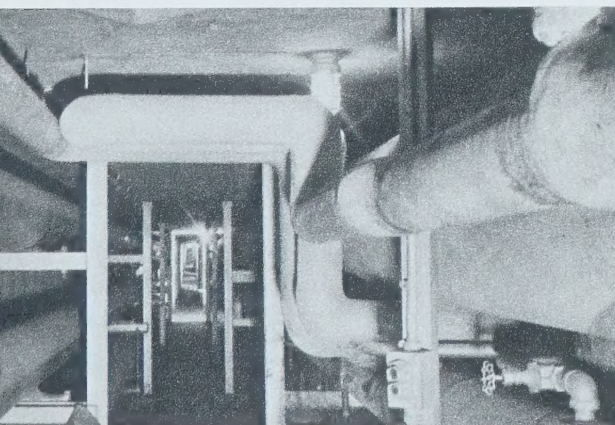
Automobile and Truck Assembly Plant
Area Totals Approximately 36 ½ Acres
Under One Roof



Main Lobby



Steam Generating Plant



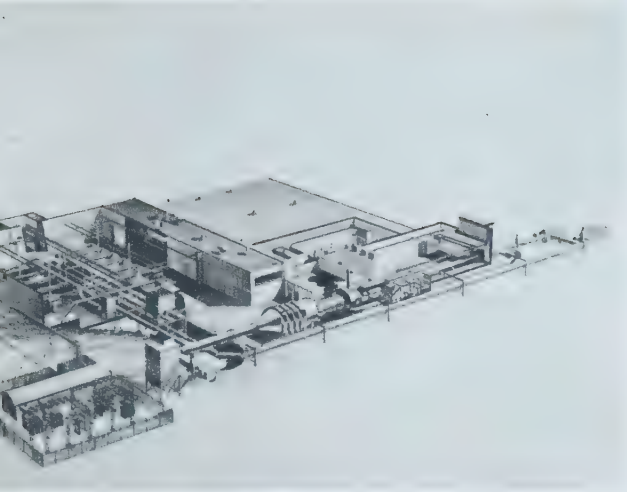
Interconnecting Service Tunnel



ORENDA ENGINES LIMITED



ORENDA ENGINES LIMITED
Malton, Ontario



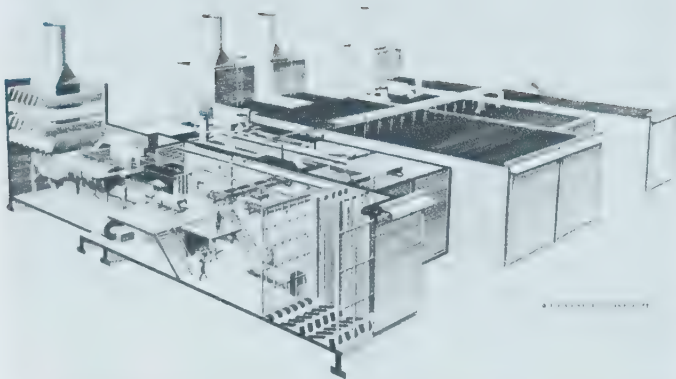
High Altitude Test Facility



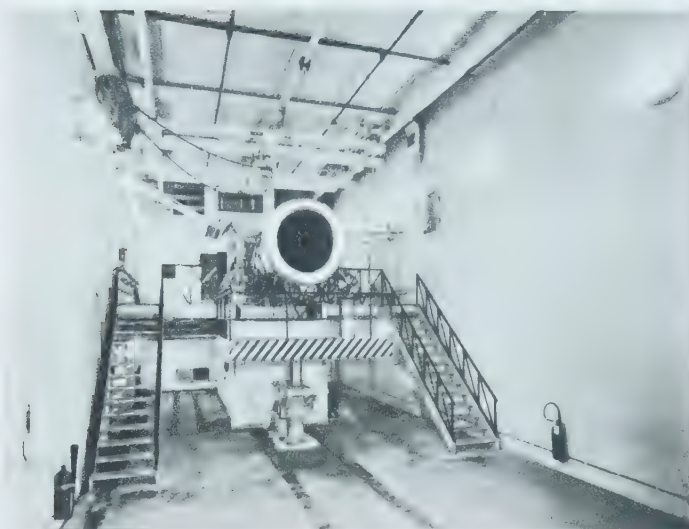
13,500 GPM Cooling Tower and Pump House
Over a 2,000,000 Gallon U/G Reservoir



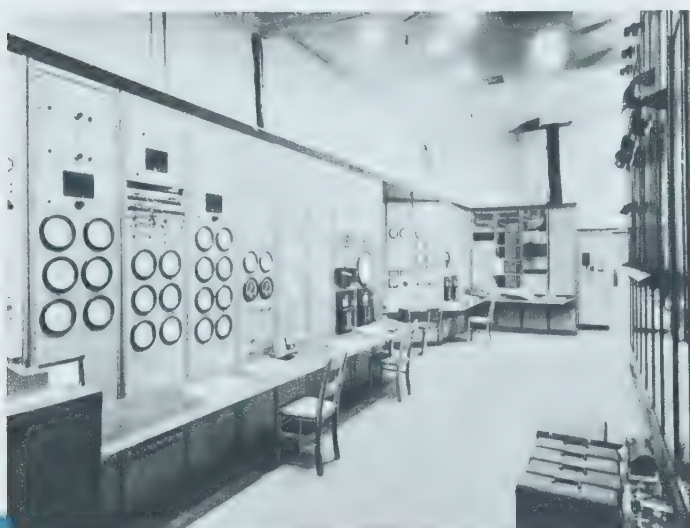
Air Ducting for High Altitude Test Facility



Turbo-Jet Engine Development Test Cell



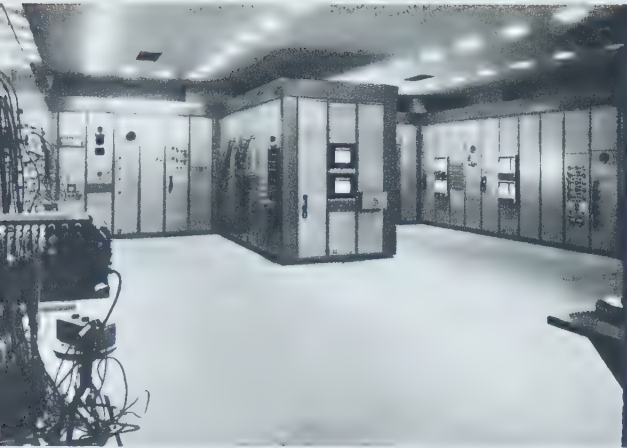
Jet Engine Test Cell Area



Control and Observation Room



ORENDA ENGINES LIMITED
Malton, Ontario



Central Recording Room



Test Cell Exhaust Stacks



Fuel Tank Farm, Unloading and Transfer
Pump Houses and Railroad Siding Facilities



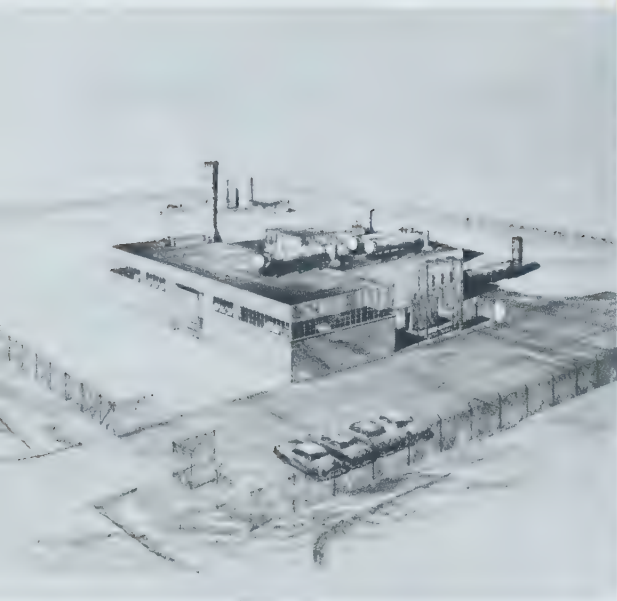
Jet Engine Production Plant Layout
ORENDA ENGINES LIMITED
Malton, Ontario



Production Hangar
AVRO AIRCRAFT LIMITED
Malton, Ontario



Aircraft Production Hangar
AVRO AIRCRAFT LIMITED
Malton, Ontario



Aircraft Engine Overhaul Facility
TRANS-CANADA AIR LINES
Winnipeg, Manitoba



Addition and Alterations
Aircraft Control and Warning Squadron (Aux.)
ROYAL CANADIAN AIR FORCE
Windsor, Ontario



Aircraft Run-Up Facility
CANADAIR LIMITED
Cartierville Airport, Quebec
Associate, Paul H. LaPointe, Architect



CANADIAN WESTINGHOUSE COMPANY LIMITED



CANADIAN WESTINGHOUSE COMPANY
LIMITED
London, Ontario



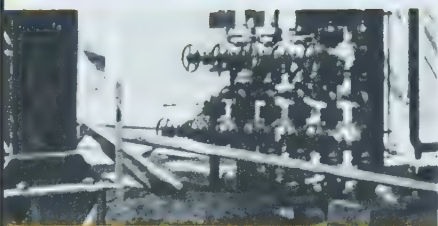
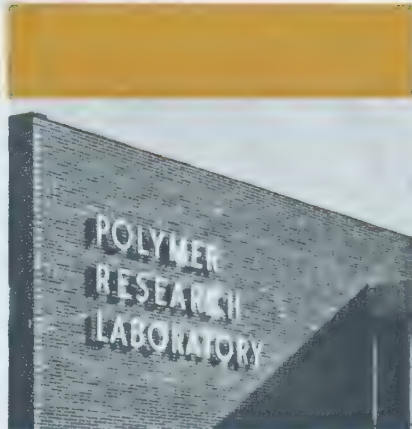
Administration and Engineering Building for
Distribution Transformer Plant



Entrance Detail



Production Area



POLYMER CORPORATION LIMITED



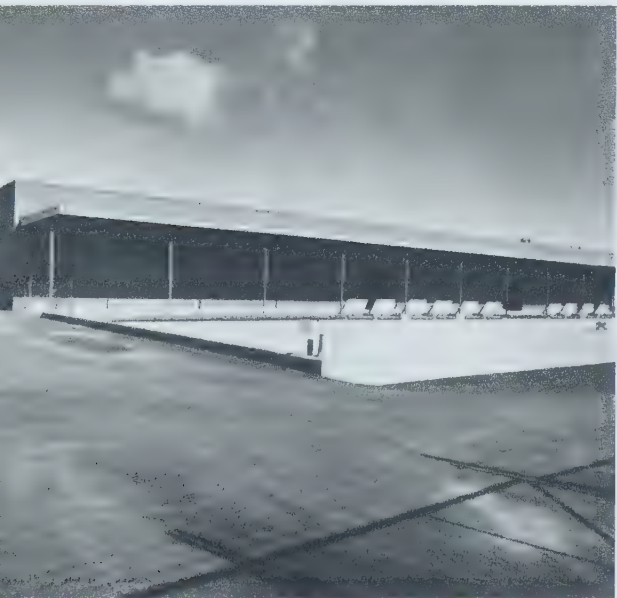
POLYMER CORPORATION LIMITED
Sarnia, Ontario



Cafeteria and Snack Bar



Research Laboratory



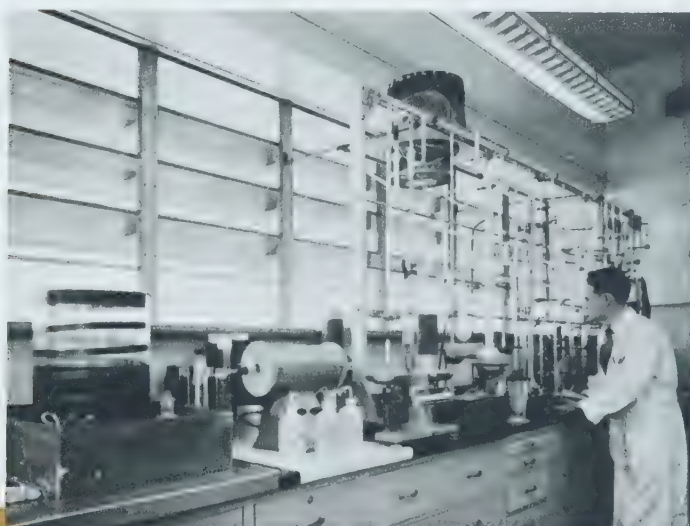
Bale Storage Warehouse



Research Laboratory Lobby



Research Laboratory Library



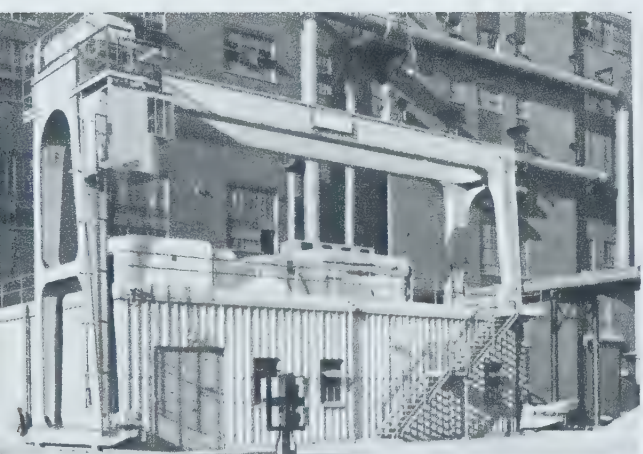
Typical Laboratory Module



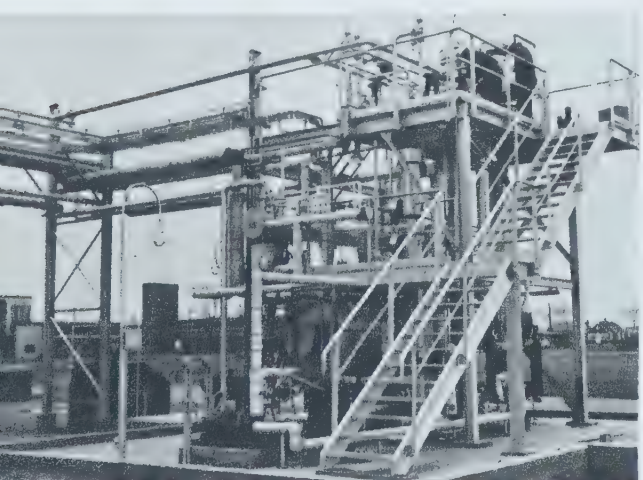
POLYMER CORPORATION LIMITED
Sarnia, Ontario



Hydrocarbon Wash System



15,625 KW Turbo-Generator



Chemical Recovery System



PARKE, DAVIS & COMPANY, LTD.



PARKE, DAVIS & COMPANY, LTD.
Brockville, Ontario



Main Entrance Detail



Reception Area



Typical Laboratory Unit



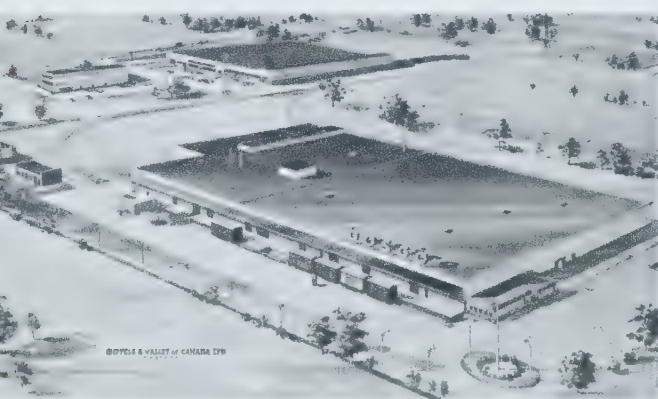
DOMINION STEEL AND COAL CORPORATION, LIMITED



DOMINION STEEL AND COAL
CORPORATION LIMITED
Etobicoke, Ontario



Manufacturing Plant and Warehouse
CANADIAN STEEL – GRAHAM NAIL DIVISION



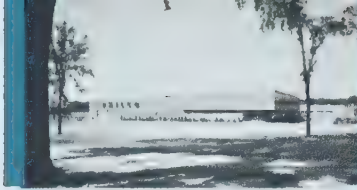
Etobicoke Property, Including Proposed Plant for
TRUSCON STEEL COMPANY OF CANADA, LIMITED



Wire Mill
CANADIAN STEEL – GRAHAM NAIL DIVISION



PHILCO CORPORATION OF CANADA LIMITED



PHILCO CORPORATION OF CANADA
LIMITED Don Mills, Ontario



Appliance Distribution Warehouse



Warehouse Lobby



TV and Radio Production Line



Federal Building
DEPARTMENT OF PUBLIC WORKS – CANADA
Amherstburg, Ontario



W. F. Herman Collegiate Institute
WINDSOR BOARD OF EDUCATION
Windsor, Ontario



150-Bed Addition
ST. JOSEPH HOSPITAL
Sarnia, Ontario



Immaculate Conception Elementary School
SEPARATE SCHOOL BOARD (WINDSOR)
Windsor, Ontario



Typical Classroom
St. Andrew Elementary School
SEPARATE SCHOOL BOARD (WINDSOR)
Windsor, Ontario



Food Service Centre
Ontario Hospital
DEPARTMENT OF PUBLIC WORKS – ONTARIO
London, Ontario



Electrical Products – Plant and Office
 CROUSE-HINDS COMPANY OF CANADA, LIMITED
 Scarborough, Ontario



Automotive Parts Plant and Office
 LONG MANUFACTURING COMPANY LIMITED
 Oakville, Ontario



Model of Regional Office and Warehouse
 PARKE, DAVIS & COMPANY, LTD.
 Montreal, Quebec
 Associate, Paul H. Lapointe, Architect



Six-Floor Warehouse
 GENERAL STEEL WARES LTD.
 Montreal, Quebec
 Associate, Paul H. Lapointe, Architect



Office and Production Plant
 CANADIAN AUTOMOTIVE TRIM LIMITED
 Ajax, Ontario



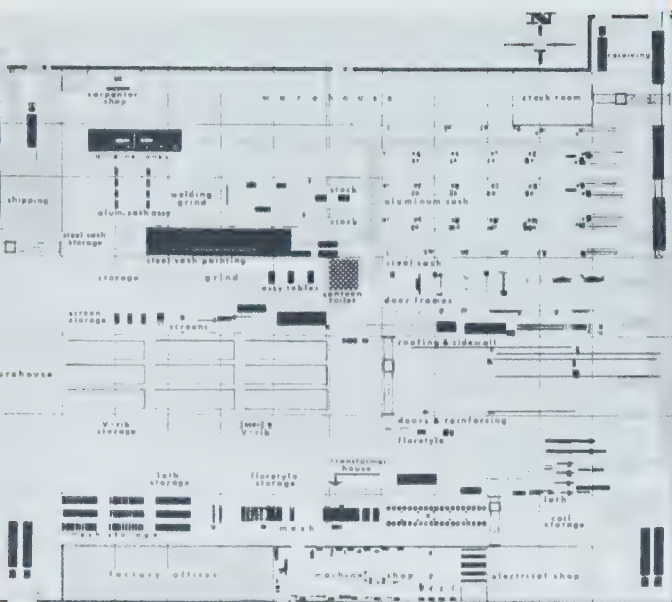
Ball Mill Line
Paint Manufacturing Plant
RINSHED-MASON COMPANY OF CANADA, LTD.
Windsor, Ontario



Manufacturing Plant, Office and Warehouse
AMERICAN CAN COMPANY OF CANADA LTD.
Chatham, Ontario



Manufacturing Plant, Office and Warehouse
NICHOLSON FILE COMPANY OF CANADA, LTD.
Port Hope, Ontario



Plant Layout for
TRUSCON STEEL COMPANY OF CANADA, LIMITED



Parts Depot Facility
CATERPILLAR OF CANADA LTD.
Port Credit, Ontario



Warehousing Facility
ALLOY METAL SALES LIMITED
Toronto, Ontario



Research and Control Laboratory
DOW CHEMICAL OF CANADA, LIMITED
Sarnia, Ontario



DOW CHEMICAL OF CANADA, LIMITED
Sarnia, Ontario



A Portion of the
Ethylene Recovery Unit



An Ammonia Storage Vessel



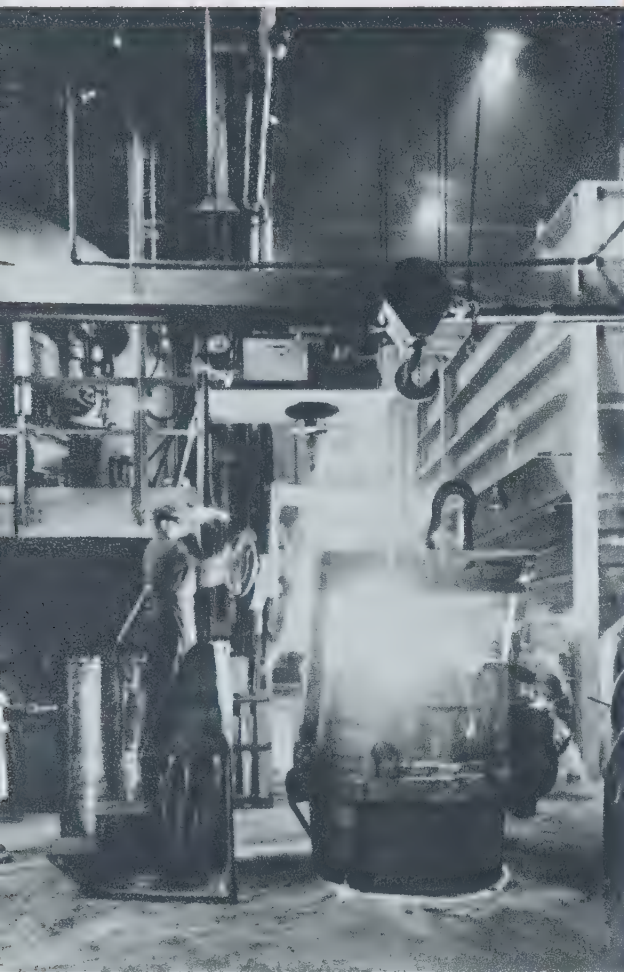
Pouring Operation
Automotive Castings Foundry
FORD MOTOR COMPANY OF CANADA LIMITED
Windsor, Ontario



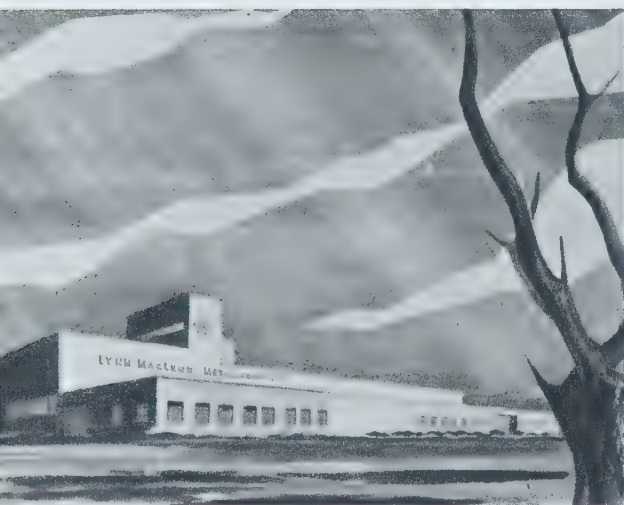
Pouring Zone
Automotive Castings Foundry
FORD MOTOR COMPANY OF CANADA LIMITED
Windsor, Ontario



Centrifugal Cast Iron Pipe Plant
THE ANTHES-IMPERIAL COMPANY LIMITED
Calgary, Alberta



Cupola Metal Transfer
Automotive Castings Foundry
FORD MOTOR COMPANY OF CANADA LIMITED
Windsor, Ontario



Steel Castings Plant
LYNN MacLEOD METALLURGY LIMITED
Theftford Mines, Quebec
Associate, Paul H. Lapointe, Architect



NATIONAL ASBESTOS MINES LIMITED
Thetford Mines, Quebec
Associate, Paul H. LaPointe, Architect

INTERNATIONAL NICKEL COMPANY OF CANADA, LIMITED

For International Nickel Company of Canada, Limited, G & V has provided broad engineering services for the development of structures and facilities for a new nickel project in northern Manitoba. G & V engineers, working with personnel from INCO's engineering department in Copper Cliff, Ontario, prepared layout and general arrangement drawings of process equipment and plant facilities. From these plans, a special design group at our Windsor offices prepared the required working drawings.

The project included:

Crushing and Screening Plants

Milling, Classifying, Separation Facilities
and Related Equipment

Conveying Equipment for Ore

Process Piping for Handling Concentrates and
Other Pulps

Smelting Facilities and Changehouses

Compressor Building

Shops, Warehouse and Administration Building

special services

Studies and Surveys
Defence Projects
Atomic Facilities
Highways and Bridges
Mining and Ore Treating



STUDIES AND SURVEYS FOR NEW FACILITIES, MODERNIZATION AND EXPANSION PROGRAMS

G & V conducts studies and surveys, and makes preliminary cost estimates as individual assignments or as part of a complete service. Analyses and recommendations covering one or more of the following project phases are made:

SITE SELECTION AND	STEAM GENERATING PLANTS
SITE PLANNING	TURBO-GENERATORS
CIRCULATION AND FLOW	COMPRESSED AIR SYSTEMS
SPACE ALLOCATION	VACUUM SYSTEMS
DRAINAGE SYSTEMS	HOT AND COLD WATER SUPPLY
SEWAGE DISPOSAL	GAS DISTRIBUTION, NATURAL OR MANUFACTURED
DOMESTIC WATER SUPPLY	AIR CONDITIONING
PROCESS WATER	HEATING AND VENTILATION
SPECIALIZED FIRE PROTECTION	OVERHEAT CONTROL SYSTEMS
ELECTRICAL POWER DISTRIBUTION	MATERIALS HANDLING EQUIPMENT
INTERCOMMUNICATION	PROCESS AND OPERATING EQUIPMENT
ANNUNCIATOR	PROCESS WASTE HANDLING SYSTEMS
RESERVOIRS AND PUMP HOUSES	CONSTRUCTION MATERIALS
WATER TREATMENT	STRUCTURAL FRAMING SYSTEMS
COOLING TOWERS	

MID-CANADA LINE

G & V services for the Mid-Canada Line included the design of the majority of buildings at the large section Control Stations and all buildings and site services at the Intermediate and Rearward Communication sites. Facilities designed comprised hangars for fixed wing aircraft and helicopters, aircraft control towers, personnel quarters, garage; administration, food storage, stores and equipment structures and complete power plants.

Extreme climatic conditions and logistic difficulties caused by remote sites and rugged terrain required original study and analysis of materials, equipment and structures. This work resulted in new utilization of materials, new construction techniques, and standardization of equipment to facilitate maintenance and spare parts supply.

Site conditions varying from permafrost to rock created special foundation, service distribution, sewage disposal and drainage problems. Fresh water supply was a serious problem on some sites and the use of evaporative condensers was one of the solutions. Waste heat from diesel generators and electronic equipment was incorporated in the heating design. G & V solved these and many other problems and successfully coordinated designs with the various engineering and architectural trades.



ATOMIC RESEARCH AND PRODUCTION FACILITIES

G & V offers this field a specialized design service.

Our experience includes the planning of facilities for machining and fabrication of experimental reactor fuel elements, high-density concrete shielding, active exhaust systems with disposable filter units and dissolvers for irradiated fuel units.



For Atomic Energy of Canada, Limited, the following facilities have been designed:

Reactor Research Laboratory

Metallurgical Laboratory

*Physics, Physical and Ceramic Laboratories
(Addition to the Metallurgical
Building)*

In addition to these completed projects, G & V conducted studies and prepared preliminary designs of other research and production facilities for continuing expansion programs.



HIGHWAYS AND BRIDGES

A completely integrated design service is available to governmental planning groups and agencies. This G & V service ranges from the preparation of origin and destination studies, including centerline, profile and soil investigation, to the development of:

PROPERTY PLANS

UTILITY PLANS

ALIGNMENT PLANS

HIGHWAY PROFILES

HIGHWAY CROSS SECTIONS

STORM SEWER PROFILES AND DETAILS

PAVEMENT CROSS SECTIONS AND DETAILS

GRADING PLANS FOR INTERCHANGES

STRUCTURAL DETAIL OF OVERPASSES AND UNDERPASSES

SPECIFICATIONS OF MATERIALS OF CONSTRUCTION

ESTIMATES OF COST OF CONSTRUCTION

The staff available for assignment is experienced in developing highway and bridge design programs for both the government and private industry.



MINING AND ORE TREATING

For the development of mining and ore treating projects, G & V provides a complete service based on the owner's process and production requirements.

This service covers assistance in developing economical methods of handling and treating ore, selecting equipment, preparing plant layouts, establishing building design criteria, and final design and engineering of the following project phases:

SITE FACILITIES

UNDERGROUND CRUSHING AND LOADING FACILITIES

COLLARS AND HEADFRAMES

CRUSHING AND SCREENING PLANTS

STORAGE AND AUXILIARY FACILITIES

FEEDERS AND CONVEYING EQUIPMENT

GRINDING AND CLASSIFYING FACILITIES

WET AND DRY CONCENTRATING PROCESSES

PUMPING EQUIPMENT, PROCESS PIPING, LAUNDERS

ELECTRICAL CONTROLS AND POWER SUPPLY

OTHER EXTRACTIVE METALLURGICAL PROCESSES

WASTE DISPOSAL

project locations

client roster



project locations

- More than one project
- • More than five projects

REPRESENTATIVE CLIENTS

- Alloy Metal Sales Limited
- American Can Company of Canada Limited
- The Anthes-Imperial Company Limited
- Assumption Church — Windsor
- • Atomic Energy of Canada Limited
- AVRO Aircraft Limited
- Bell Telephone Company of Canada
- Bendix-Eclipse of Canada, Ltd.
- Brunner Mond (Canada) Ltd.
- Burroughs Adding Machine of Canada Ltd.
- Canadair Limited
- Canadian Automotive Trim Limited
- Canadian Bridge Company Limited
- Canadian General Electric Company Limited
- Canadian Rock Salt Company Limited
- Canadian Steel Corporation Limited
- Canadian Westinghouse Company Limited
- Caterpillar of Canada Ltd.
- Chrysler Corporation of Canada, Limited
- City of Windsor
- Crouse-Hinds Company of Canada, Limited
- • Defence Construction (1951) Limited
- Department of Highways — Ontario
- Department of Public Works — Canada
- Department of Public Works — Ontario
- Dominion Rubber Company Limited
- Dominion Steel and Coal Corporation, Limited
- Dominion Twist Drill Limited
- • Dow Chemical of Canada, Limited
- Dunlop Tire & Rubber Goods Company, Limited
- Empire Brass Mfg. Co. Limited
- Fabricated Steel Products (Windsor) Limited
- • Ford Motor Company of Canada Limited
- General Steel Wares Ltd.
- Holmes Foundry Limited
- Houdaille Industries Ltd.
- The Hydro-Electric Power Commission of Ontario
- International Malleable Iron Co. Ltd.
- The International Nickel Co. of Canada, Limited
- Kellogg Company of Canada Limited
- Wm. Kennedy & Sons, Limited
- Lambton County, Ontario
- Long Manufacturing Company Limited
- Lynn MacLeod Metallurgy Limited
- C. H. McInnis Company Ltd.
- McKinnon Industries, Limited
- Metropolitan General Hospital — Windsor
- Morse Chain of Canada Ltd.
- National Asbestos Mines Limited
- Nicholson File Company of Canada, Ltd.
- • Orenda Engines Limited
- Parke, Davis & Company, Ltd.
- Philco Corporation of Canada Limited
- • Polymer Corporation Limited
- Rinshed-Mason Company of Canada, Ltd.
- Riverside Board of Education — Ontario
- Royal Metal Mfg. Co. Ltd.
- St. Joseph Hospital — Sarnia
- Separate School Board — Windsor
- Smith Manufacturing Co. Limited
- Standard Iron & Steel Works Limited
- Standard Products (Canada) Limited
- The Steel Company of Canada, Limited
- Sun Oil Company Ltd.
- Trans-Canada Air Lines
- Truscon Steel Company of Canada, Limited
- Union Gas Company of Canada Limited
- • Windsor Board of Education — Ontario
- John Wyeth & Brother (Canada) Limited
- L. A. Young Industries of Canada, Limited

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